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Lecture Outline

POTENTIALITIES AND VULNERABILITIES OF THE USSR.

I. Geographic Background:

- A. General features
- B. Climate
 - Soviet attempts to modify conditions imposed by geographical position

II. Industrial Potentialities and Vulnerabilities:

- A. Historical Background:
 - 1. Economic revolution: Organization and Planning
 - 2. Significance of German invasion
- B. Raw Materials:
 - 1. Timber, oil, iron ore, coal, manganese, copper, lead, zinc, uranium, bauxite, gold and nickle - all available in considerable quantities.
 - 2. Imports: graphite, industrial diamonds, tin, tungsten and antimony, natural rubber.
 - 3. Conclusion: Great degree of self-sufficiency
- C. Technology:
 - 1. Exploitation of foreign techniques (by design).
 - 2. Development of new techniques.
- D. Industrial Manpower
- E. Industrial Comparisons:
 - fallacies in unqualified comparisons

III. Scientific Potentialities and Vulnerabilities:

- A. Historical Background:
 - 1. Emphasis on Science
 - 2. Organization and Planning
 - 3. Exploitation of Western Theory and application.
- B. Manpower - Scientific
- C. Research and Development:
 - 1. Physics
 - 2. Geo-Physics
 - 3. Atomic Research
 - 4. Chemistry
 - 5. Medicine and Biology

IV. Military Potentialities and Vulnerabilities:

- A. Red Army
 - 1. Size and Strength
 - 2. Equipment
 - 3. Stock-piling
 - 4. Organization and Control
 - 5. Training
 - 6. Tactics and Strategy
 - 7. Leadership

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B. Red Navy:

1. Size and Strength
2. Equipment
3. Stock-piling
4. Organization and Control
5. Major Weakness: Division of major surface fleets (4).

C. Red Air Force:

1. Size and Strength
2. Significant Types of Craft
3. Stock-piling
4. Training
5. Significance to USSR of aeronautical revolution of World War II.

V. General Summary:

- A. Strengths
- B. Weaknesses.